Appl. No. 10/810,977 Amdt. dated December 8, 2005 Reply to Office Action of September 8, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-21 (canceled).
Claim 22 (currently amended): A permanently wettable superabsorbent material made by the method comprising:
treating a superabsorbent-material with a surfactant in a surfactant solution;
functional group of said superabsorbent material and at least one non-reactive and hydrophilic
functional group; and
wherein said-surfactant is applied to said-superabsorbent material when said second
functional groups on a surface of said superabsorbent material are activated
a superabsorbent material; and
a surfactant;
wherein the superabsorbent material has a hydrophobic surface;
wherein the surfactant has at least one reactive functional group that is reactive with the
superabsorbent material:
wherein the surfactant has at least one non-reactive functional group that is non-reactive with
the superabsorbent material:
wherein the surfactant has been applied to the superabsorbent material as an aqueous
surfactant solution; and
wherein the aqueous surfactant solution includes an amount of water that is sufficient to
activate the hydrophobic surface of the superabsorbent material to promote reaction between the
at least one reactive functional group and the hydrophobic surface of the superabsorbent material,
but less than sufficient to cause significant swelling of the superabsorbent material.

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Claim 23 (currently amended): The permanently wettable superabsorbent material of claim 22 wherein said superabsorbent material is selected from the group consisting of fibers, particulates, films, nonwovens, beads, foams, and coforms a fiber.

Claim 24 (currently amended): The permanently wettable superabsorbent material of claim 22 wherein said surfactant solution includes a solvent to said surfactant but a non-solvent to said superabsorbent material; and

wherein said surfactant solution includes an amount of water sufficient to activate said surface of said-superabsorbent material to promote reaction between said first and said-second functional groups on said surface of said superabsorbent-material.

Claim 25 (currently amended): The permanently wettable superabsorbent material of claim 22 wherein said permanently wettable superabsorbent material has a floating time of less than 30 seconds, as measured by the Flotation Time procedure.

Claim 26 (currently amended): The permanently wettable superabsorbent material of claim 22 wherein said permanently wettable superabsorbent material has a reduction in surface tension of saline of less than about 30% when compared to an untreated superabsorbent material, as measured by the Surface Tension Test.

Claim 27 (previously presented): The permanently wettable superabsorbent material of claim 22 wherein said superabsorbent material is selected from the group consisting of alkali metal salts of polyacrylic acids, polyacrylamides, polyvinyl alcohol, ethylene maleic anhydride copolymers, polyvinyl ethers, hydroxypropylcellulose, polyvinylmorpholinone, and polymers and copolymers of vinyl sulfonic acid, polyacrylates, polyacrylamides, polyvinyl amines, polyallylamines, and polyvinylpyrridine.

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Claim 28 (previously presented): The permanently wettable superabsorbent material of claim 22 wherein said superabsorbent material is selected from the group consisting of agar, algin, carrageenan, starch, pectin, guar gum, chitosan, and the like, modified natural materials such as carboxyalkyl cellulose, methyl cellulose, hydroxyalkyl cellulose, chitosan salt, dextran, and the like.

Claim 29 (currently amended): The permanently wettable superabsorbent material of claim 22 wherein said surfactant first at least one reactive functional group is selected from the group consisting of quaternary ammonium groups, amino groups, carboxyl groups, sulfonate groups, phosphate groups, and their corresponding acid groups.

Claim 30 (previously presented): The permanently wettable superabsorbent material of claim 24 wherein said solvent is selected from the group consisting of isopropanol, methanol, ethanol, butyl alcohol, butanediol, butanetriol, butanone, acetone, ethylene glycol, propylene glycol, glycerol, and mixtures thereof.

Claim 31 (currently amended): The permanently wettable superabsorbent material of claim [[24]] 22 wherein said water is present from about 1 to 10% by total weight of the solvent.

Claim 32 (currently amended): The permanently wettable superabsorbent material of claim 22 wherein said surfactant is applied to said superabsorbent material when said hydrophobic surface of said superabsorbent material is sufficiently solvated to promote reaction between said first-and said second at least one reactive functional group and groups on the surface of said superabsorbent material.

Claim 33 (previously presented): A disposable absorbent product comprising a liquid-permeable topsheet, a backsheet attached to the topsheet, and an absorbent structure comprising the permanently wettable superabsorbent material of claim 22 positioned between the topsheet and the backsheet.

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Claim 34 (currently amended): A permanently wettable superabsorbent fiber made by the method comprising:

treating a superabsorbent fiber with a surfactant solution; and
binding said surfactant to a surface of said superabsorbent fiber;
wherein said surfactant comprises at least one first functional group reactive with at least a
second functional group of said surface of said superabsorbent-fiber, and at least one non-reactive
and hydrophilic functional group on said surface of said superabsorbent fiber
a superabsorbent fiber; and
a surfactant;
wherein the superabsorbent fiber has a hydrophobic surface;
wherein the surfactant has at least one reactive functional group that is reactive with the
superabsorbent fiber;
wherein the surfactant has at least one non-reactive functional group that is non-reactive with
the superabsorbent fiber;
wherein the surfactant has been applied to the superabsorbent fiber as an aqueous
surfactant solution:
wherein the aqueous surfactant solution includes an amount of water that is sufficient to
activate the hydrophobic surface of said superabsorbent fiber to promote reaction between the at
least one reactive functional group and the hydrophobic surface of the superabsorbent fiber, but
less than sufficient to cause significant swelling of the superabsorbent fiber; and
wherein said surfactant is applied to said superabsorbent fiber when said surface is activated
by increasing an amount of said at least a secondone reactive functional group available to react a
said hydrophobic surface of said superabsorbent fiber.

Claim 35 (currently amended): The permanently wettable superabsorbent fiber of claim 34 having a reduction in surface tension of saline of less than about 30%, as measured by the Surface Tension Test.

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Claim 36 (previously presented): A disposable absorbent product comprising a liquid-permeable topsheet, a backsheet attached to said topsheet, and an absorbent structure comprising the permanently wettable superabsorbent fiber of claim 34 positioned between the topsheet and the backsheet.

Claim 37-39 (canceled).